Hanford's FY 2001 Draft Budget
"Help Influence Priorities"

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Office of River Protection

MISSION

"Store, treat, immobilize and dispose of the highly radioactive Hanford Site tank waste* in an environmentally sound, safe, and cost-effective manner"

**Current and future tank waste and the cesium and strontium capsules*

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Project Description

- ***Safe, Continued Storage of Waste in Single and Double-Shell Tanks***
- ***Mitigation/Resolution of Safety Issues***
- ***Characterization of Tank Wastes***
- ***Retrieval, Treatment, and Immobilization of Tank Wastes***
- ***Onsite Disposal of Immobilized Low-Activity Wastes***
- ***Offsite Disposal of Immobilized High-Level Waste***

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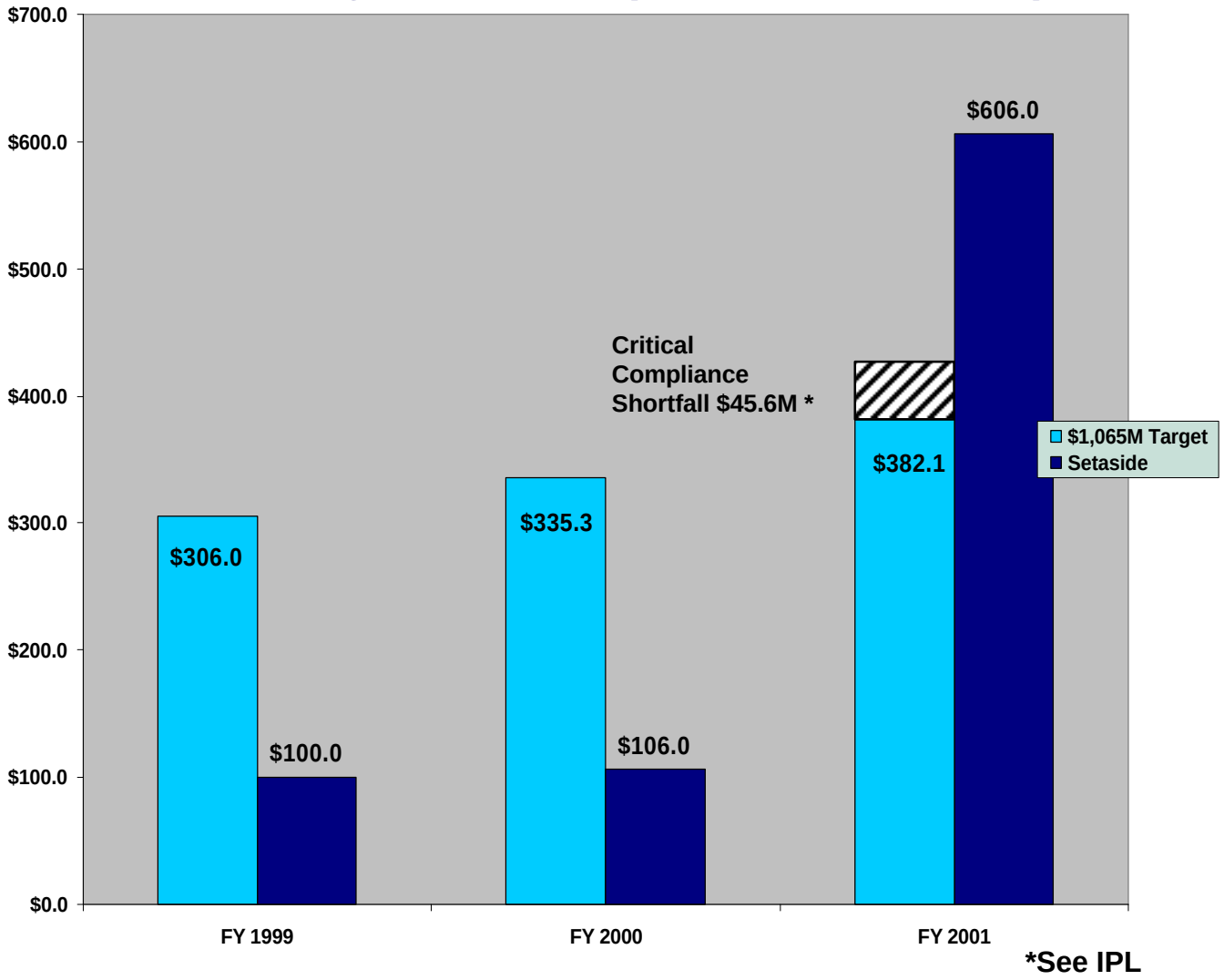
Funding Profile ($ in millions)



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Assumptions Built into FY 2001 Budget

- ***90% BNFL Privatization Schedule Supported with Some Risk***
- ***C-106 Retrieval and High Heat Safety Issues Resolved in FY 2000***
- ***W-151 AZ-101 Mixer Pump Technology Verification Complete in FY 2000***
- ***DNFSB 93-5 Tank Characterization closed in FY 1999***
- ***FY 1999 Reprogramming and FY 2000 Markups Approved***
- ***FY 2001 Set-aside Funding of $606M will be Provided***

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Urgent Needs and Project Priorities

- **Minimum Safe Operations**

  Double-Shell/Single-Shell Tank Operations; Authorization Basis Maintenance; Flammable Gas Controls; Unreviewed Safety Question Closure; Operational/Radiological Surveillances; Corrective/Preventative Maintenance; Single-Shell Tank Emergency Pumping

- **Essential Services and Activities**

  Fluor Daniel Hanford Management and Fee; System Engineering and Program Planning

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Urgent Needs and Project Priorities (cont'd)

- **Elimination of Urgent Risks**

  Single-Shell Tank Pumping per Consent Decree; Vadose Zone Characterization; Privatization Support to 90% BNFL Schedule with Some Risk

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Workscope Comparison

Description	FY 1999	FY 2000	FY 2001
Maintain Minimum Safe Storage of Tank Wastes			
Support Single-Shell Tank Liquid Pumping			
Continue Retrieval High Heat Tank 106-C (W-320)			Complete
Upgrade Tank Farm Facilities (W-314)			
Continue Tank Integrity Inspections			
Final Safety Analysis Report Implementation	Partial	Unfunded	N/A
Characterization of Tank for Waste Retrieval			

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Workscope Comparison (cont'd)

Description	FY 1999	FY 2000	FY 2001
Continue Retrieval of Double-Shell Tanks (W-211)			
Support Retrieval of Single-Shell Tanks		Partial	Unfunded
Provide Privatization Infrastructure			
Support Immobilized High-Level Waste Activities			
Support Immobilized Low-Activity Waste Activities and Facilities	Partial	Partial	Partial
Support Vadose Zone Program			Partial
Continue Hanford Tanks Initiative	Partial	Unfunded	Unfunded

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Technology Needs

- ***Hard Waste Material Retrieval and Monitoring Systems (HTI); Mixing and Mobilization Enhancements***
- ***Sampling Systems and Actual Waste Tests to Prevent Solids Formation (Demonstration/deployment Underway)***
- ***Soil/Environmental Parameters, Data on Waste form Release, Contaminant Flow and Barrier Testing Related to Performance Assessment (and Vadose Zone [demonstration/deployment underway])***
- ***Cleanout and Decontamination of Pump/Valve Pits***

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FY 2001 Target "Buy Back" List

- ***Reduce Risk for 90% BNFL Schedule ($9.7M)***
- ***Characterization Critical Needs ($5.3M)***
- ***SST Program Development of Solids Removal ($6.0M)***
- ***SY-101 Level Growth ($5.1M)***
- ***Tank Isolation and Abandoned Equipment ($3.8M)***
- ***Tank PH Issue Resolution ($4.3M)***
- ***Removal of Inactive Systems from Operations ($2.1M)***
- ***Accelerated Vadose Zone ($7.0M)***

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Issues

- ***Critical Compliance Gap ($46M shortfall at $382M level)***
- ***Planned Enhancements to Privatization Scope and Schedule***

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